|  |  |
| --- | --- |
| **EARTH AND SPACE SCIENCE LONG TERM TRANSFER GOALS** | |
| Students will be able to independently use their learning to:   1. Approach science as a reliable and tentative way of knowing and explaining the natural world and apply this understanding to a variety of situations. 2. Weigh evidence and use scientific approaches to ask questions, investigate, make informed decisions about how they live their daily lives, and engage in their vocations and communities. 3. Make and use observations to identify and analyze relationships and patterns in order to explain phenomena, develop models, and make predictions. 4. Evaluate systems, including their components and subsystems, in order to connect how form determines function and how any change to one component affects the entire system. 5. Explain how the natural and designed worlds are interrelated and the application of scientific knowledge and technology can have beneficial, detrimental, or unintended consequences. | |
| **EARTH AND SPACE SCIENCE BIG IDEAS AND ESSENTIAL QUESTIONS** | |
| **Big Ideas** | **Essential Questions** |
| Big Idea 1:  The Universe is composed of a variety of different objects, which are organized into systems, each of which develops according to accepted physical processes and laws. | *What are the predictable patterns caused by different objects in the solar system? How do objects in the universe appear and behave?* |
| Big Idea 2:  The Earth is a complex and dynamic set of interconnected systems (e.g. geosphere, hydrosphere, atmosphere, biosphere) that interact over a wide range of temporal and spatial scales. | *How do we describe and interpret Earth’s features, their origins, and the processes that shape them?* |
| The earth’s surface processes affect and are affected by human activities. | *How do Earth’s processes and human activities affect each other?* |